

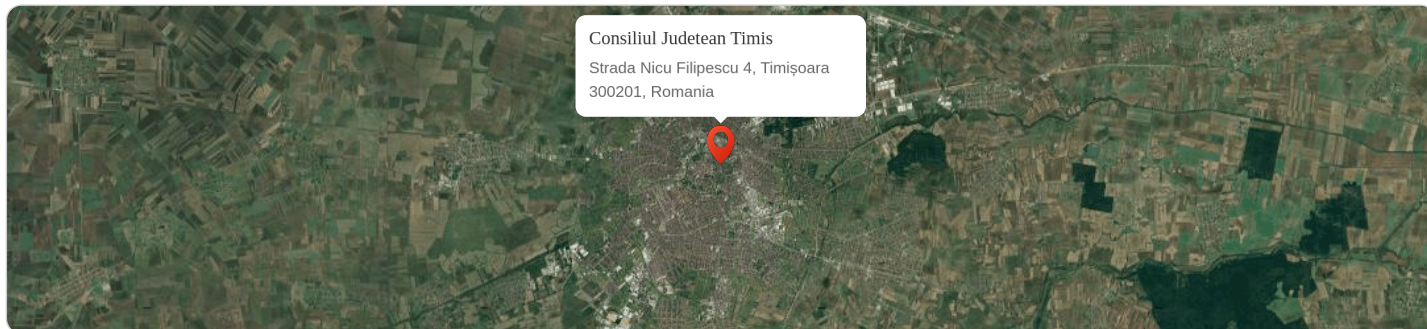
Consiliul Judetean Timis

MONTHLY AIR-QUALITY REPORT

Timp de la: **01/12/2025, 00:00**
Timp până la: **30/12/2025, 23:59**

Numele dispozitivului: **Consiliul Judetean Timis**
Locația dispozitivului: **Strada Nicu Filipescu 4, Timișoara 300201, Romania**

Parametrii: **EAQI , NO₂ , O₃ , SO₂ , PM_{2.5} , PM₁₀ , Wind Speed , Wind Direction , CO , R. Humidity , PM₁ , PM₁₀₀ , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **330**

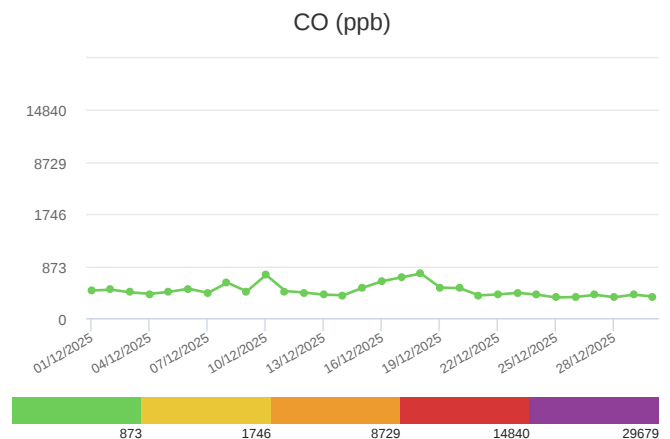
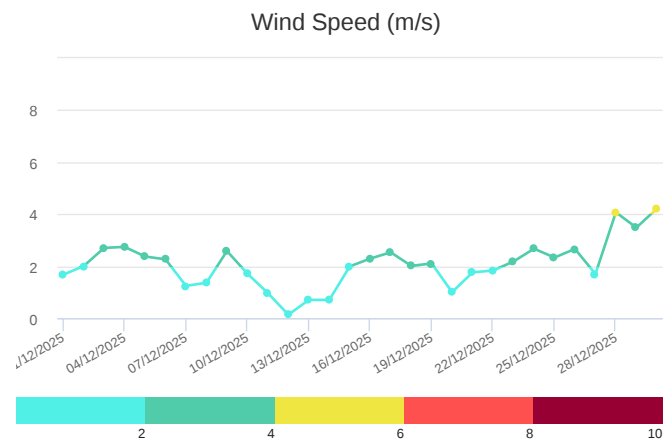
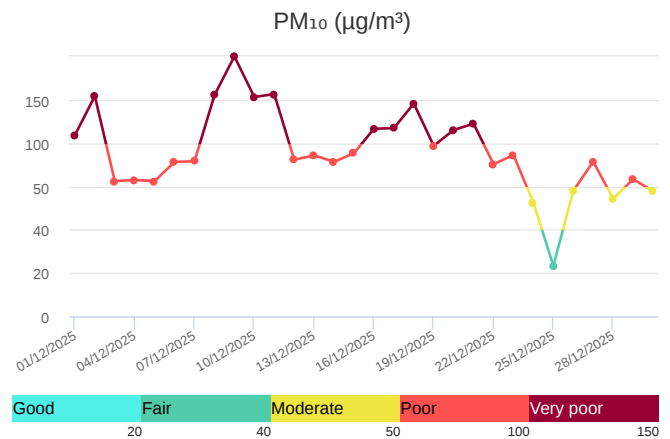
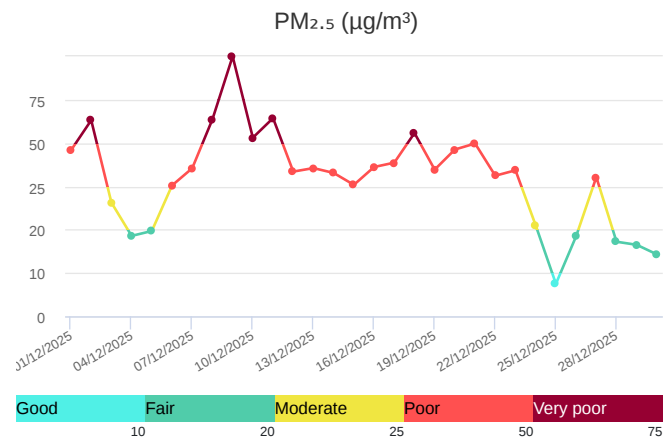
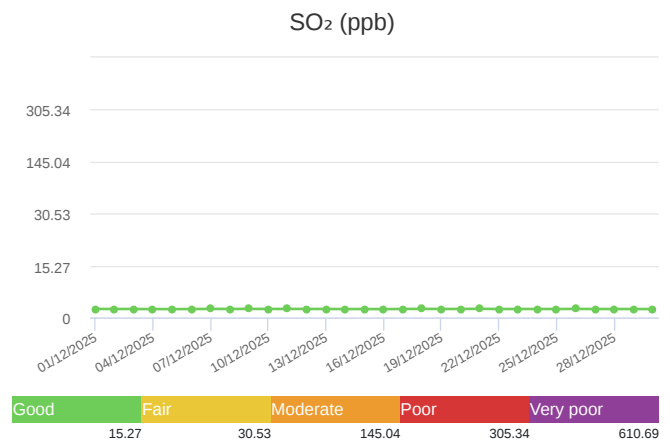
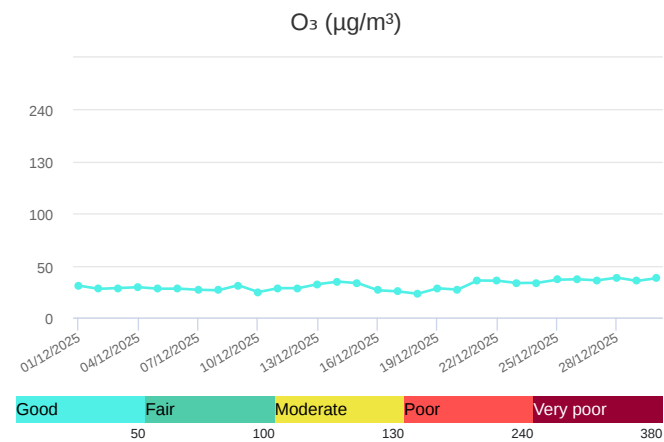
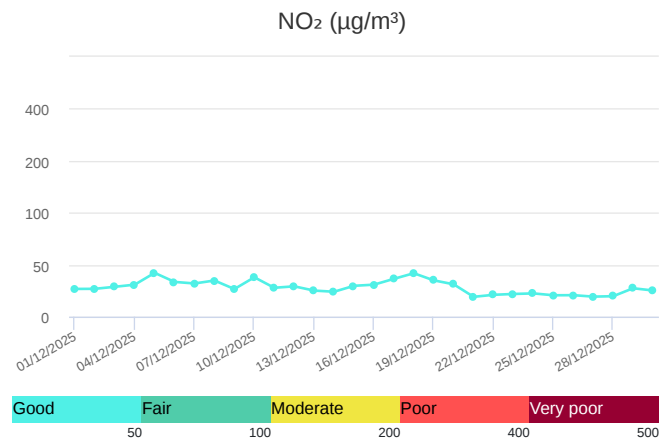
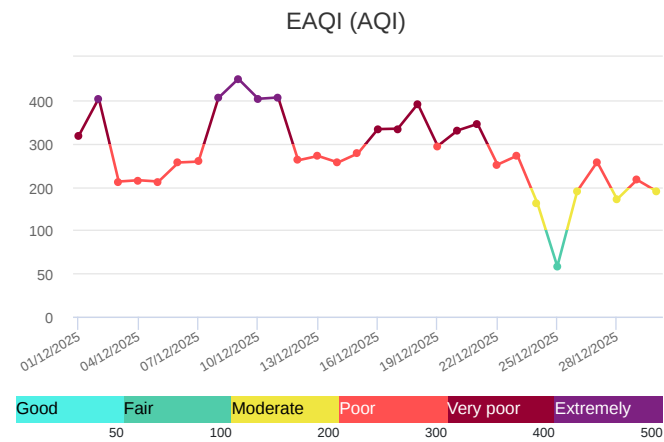
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

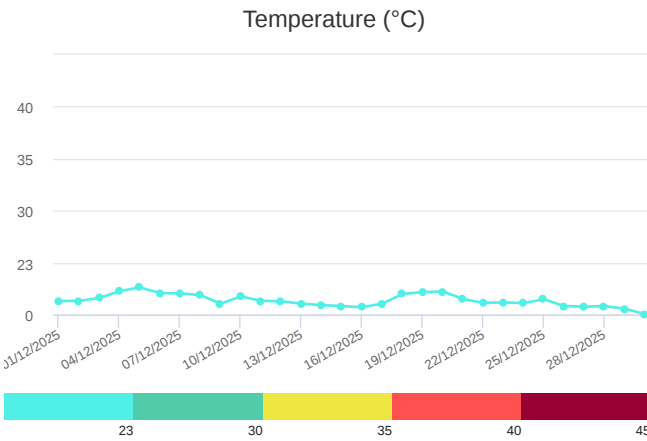
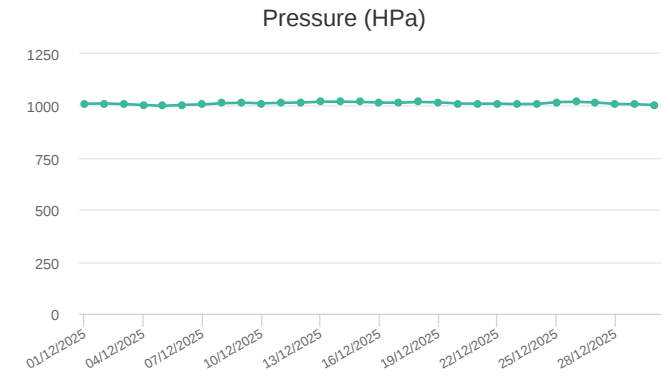
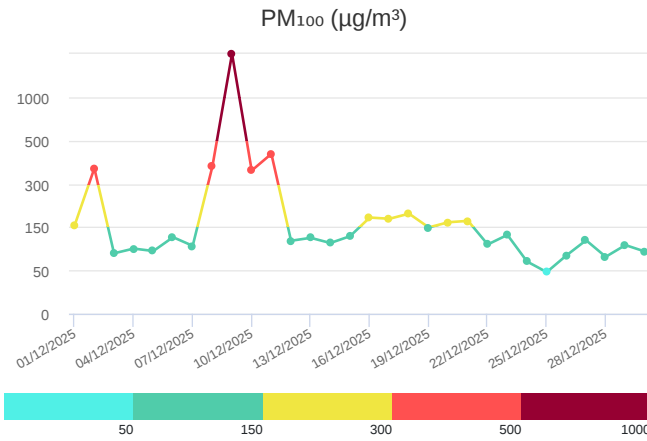
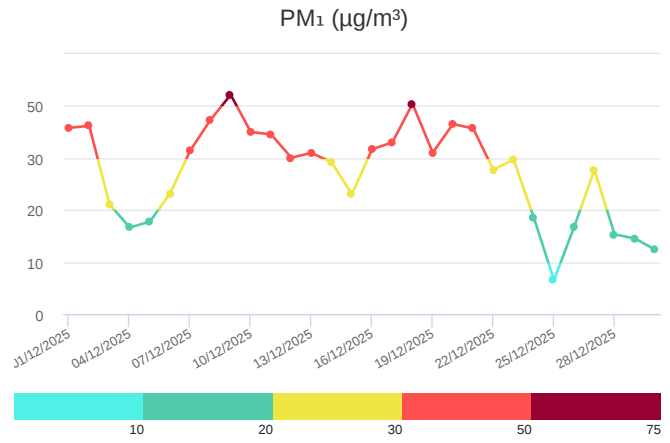
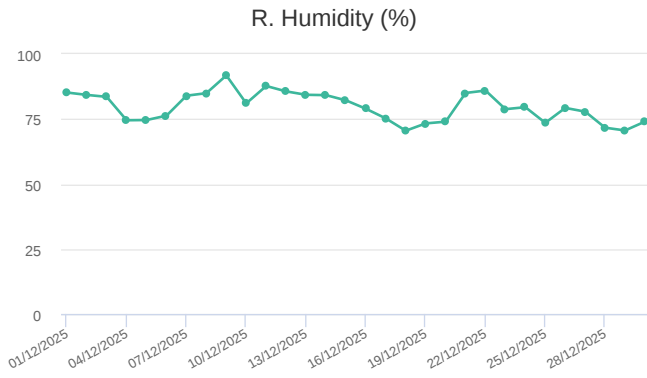
	EAQI AQI	NO ₂ μg/m ³	O ₃ μg/m ³	SO ₂ ppb	PM _{2.5} μg/m ³	PM ₁₀ μg/m ³
Average	330	28.27	30.73	2.5	38.1	114.89
Maximum	449	42.16	38.28	2.55	151.62	660.18
Date	09/12/2025	05/12/2025	28/12/2025	21/12/2025	09/12/2025	09/12/2025
Minimum	58	19.09	22.83	2.46	7.5	23.3
Date	25/12/2025	21/12/2025	18/12/2025	05/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

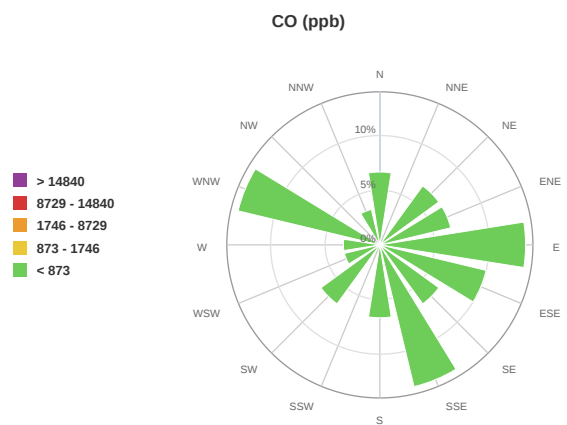
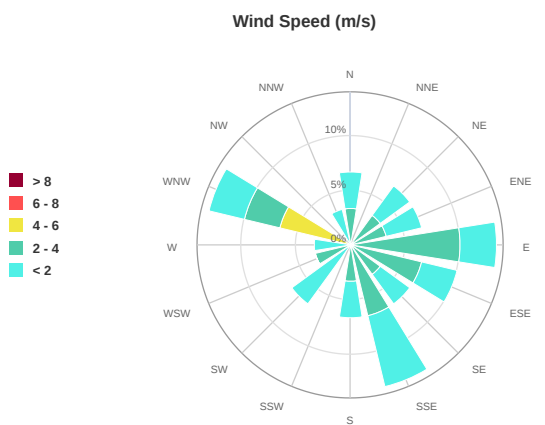
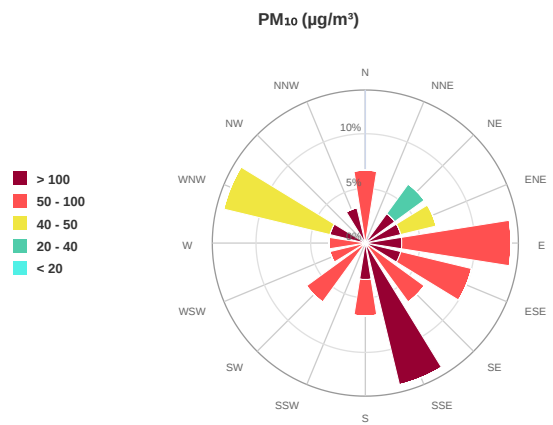
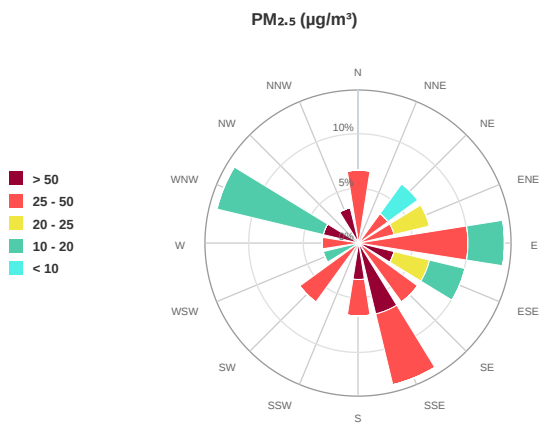
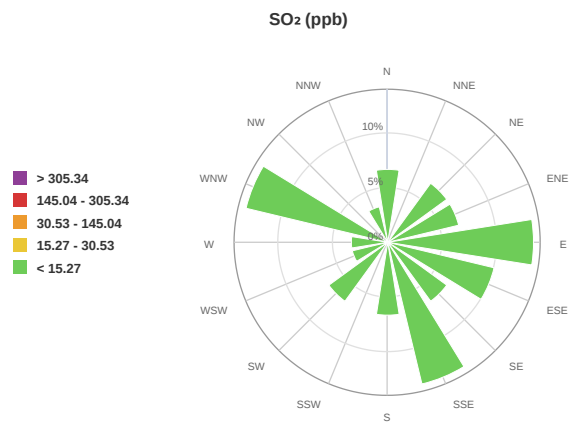
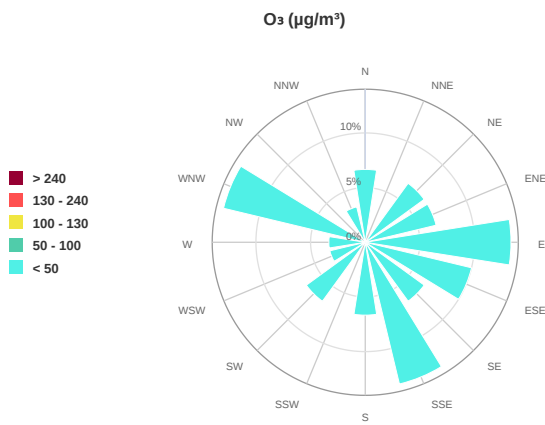
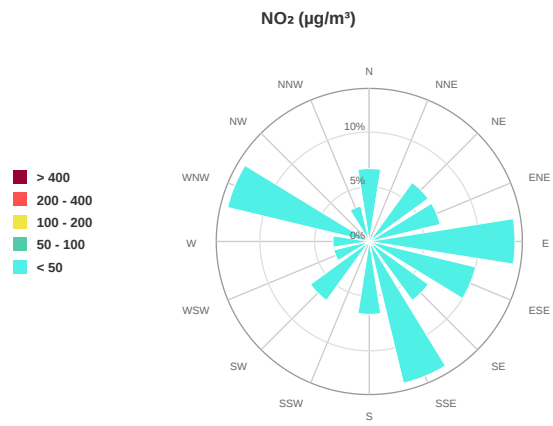
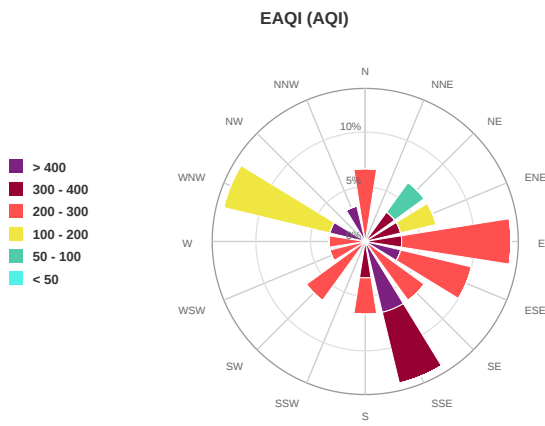
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure hPa	Temperature °C
Average	0.42	101.32	100	464.54	79.74	29.84	204.54	1011.96	6.24
Maximum	4.21	299.6	100	748.31	91.77	55.39	1531.11	1019.84	12
Date	30/12/2025	30/12/2025	01/12/2025	18/12/2025	09/12/2025	09/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.13	218.55	100	345.66	70.49	6.51	48.03	999.87	0.26
Date	12/12/2025	12/12/2025	01/12/2025	25/12/2025	18/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

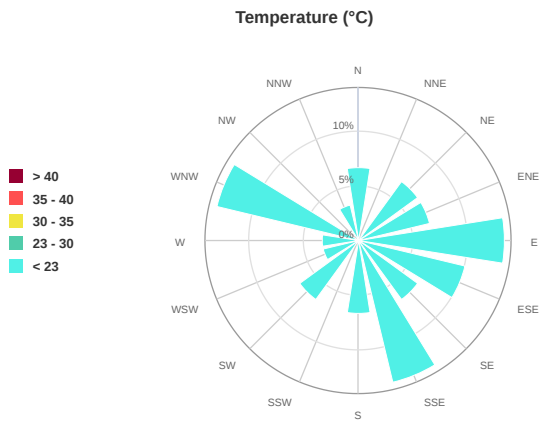
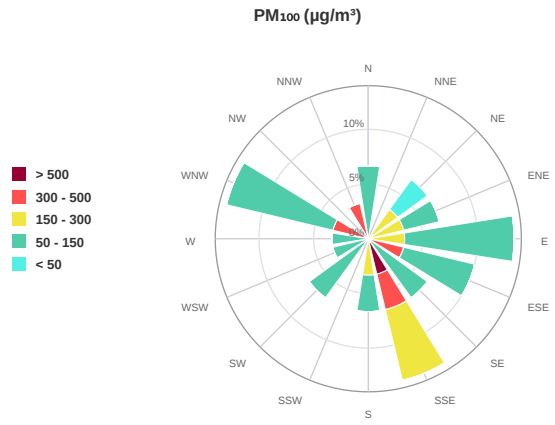
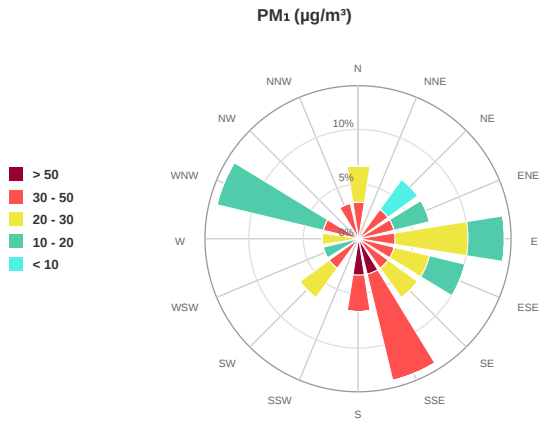
Weekly Average





Weekly Average





Alerte

No alerts for the selected date and time range

Insights

- 11/12/2025, 23:59 **EAQI peaked in early December, reaching extremely poor levels:** The EAQI reached its highest levels in the dataset, exceeding 400, indicating extremely poor air quality during this period. This suggests a period of heightened pollution.
- 09/12/2025, 23:59 **PM₁₀ shows significant fluctuation, peaking at extremely poor levels:** PM₁₀ levels experienced considerable variation, reaching a peak of 660.18 µg/m³, categorized as extremely poor. This indicates a high concentration of coarse particulate matter.
- 17/12/2025, 23:59 **Temperature inversely related to air quality:** Lower temperatures observed in the beginning of the period appear to correlate with worse air quality (higher EAQI). For instance temperatures around 4°C correlate to 'Extremely Poor' air quality.
- 30/12/2025, 23:59 **NO₂ concentration primarily in moderate range:** NO₂ concentrations generally fall within the 'Moderate' range. However, some data points exceed the moderate range, occasionally reaching the 'Poor' range indicating pollution events.
- 30/12/2025, 23:59 **O₃ concentration largely falls within the 'Moderate' range:** O₃ levels are primarily within the 'Moderate' range, staying relatively stable across the observed timeframe and rarely exceeding the range thresholds.
- 30/12/2025, 23:59 **SO₂ concentration consistently in the good zone:** SO₂ concentration is consistently within the 'Good' range, remaining below 3 ppb throughout the entire period indicating insignificant levels of this pollutant.
- 30/12/2025, 23:59 **PM_{2.5} levels show considerable variability in December:** PM_{2.5} fluctuates significantly, ranging from 'Good' to 'Very Poor'. Highest value recorded at 64.34 µg/m³ and the lowest at 7.5 µg/m³.
- 30/12/2025, 23:59 **Wind direction varies but no clear impact on pollution:** Wind direction changes significantly. But there is no obvious correlation between wind direction and the level of the air pollutants. This could indicate multiple pollution sources.
- 11/12/2025, 23:59 **High Relative Humidity present during worst air quality:** High relative humidity, often above 80%, coincides with periods of 'Very Poor' and 'Extremely Poor' air quality, potentially trapping pollutants near the ground.
- 25/12/2025, 23:59 **December 25th recorded the best EAQI score:** EAQI was at its lowest value of 71 on December 25th, indicating 'Fair' air quality, which is the best in the dataset. This could be due to reduced industrial activity during holidays.
- 30/12/2025, 23:59 **PM₁ levels closely track PM_{2.5}, indicating a fine particle source:** PM₁ concentrations follow a similar trend to PM_{2.5}, suggesting a common source of fine particulate matter. The concentrations of the 2 are comparable to each other.
- 30/12/2025, 23:59 **Pressure remains relatively consistent throughout December:** Atmospheric pressure fluctuates within a small range, between 999.87 and 1019.84 hPa. Pressure changes do not appear to correlate with significant changes in EAQI.
- 30/12/2025, 23:59 **Elevated PM₁₀₀ concentration in line with PM₁₀ trends:** PM₁₀₀ concentrations closely follow PM₁₀, indicating a common source of coarser particles. PM₁₀₀ are significantly higher than the other PM readings.
- 10/12/2025, 23:59 **CO (ppb) Spikes During Extremely Poor Air Quality Events:** Carbon Monoxide concentrations spike to highs of 748.31 ppb during periods of extremely poor air quality, suggesting combustion sources contribute to the pollution.
- 30/12/2025, 23:59 **Wind speed influence on PM₁₀: Faster winds, higher PM₁₀:** Increased wind speed correlates with high PM₁₀ concentrations potentially due to increased dispersion of dust or re-suspension of particulate matter from surface.
- 30/12/2025, 23:59 **Battery levels are consistently at 100%:** The sensors maintain a constant battery level of 100% which ensures consistent and reliable data collection throughout the reporting period.
- 30/12/2025, 23:59 **EAQI (AQI) and AQI values match:** The EAQI and AQI values are identical, indicating consistency in air quality indexing methodology across the readings in the dataset.
- 30/12/2025, 23:59 **NO₂ fluctuates in 'Moderate' to 'Poor' ranges:** NO₂ levels fluctuate between the 'Moderate' and 'Poor' ranges, indicating a need to address nitrogen dioxide emissions to improve the air quality score.
- 30/12/2025, 23:59 **O₃ Concentrations Show Minimal Variation:** Ozone concentrations demonstrate very little fluctuation and are consistent throughout the reported timeframe. Readings oscillate between the moderate to fair range.
- 30/12/2025, 23:59 **Impact of Wind Direction on Air Quality Still Unclear:** The data shows no immediate obvious correlation between wind direction and pollution levels. Further analysis might be needed to determine the effects of wind direction.
- 30/12/2025, 23:59 **PM_{2.5} Consistently High during 'Poor' EAQI Days:** Elevated PM_{2.5} concentrations are a constant factor when EAQI levels are classified as 'Poor', demonstrating PM_{2.5}'s significant contribution to lower air quality.
- 30/12/2025, 23:59 **Temperature Drop Coincides with Increased Pollution Levels:** A noticeable drop in temperature correlates with increased pollutant concentrations, especially PM_{2.5} and PM₁₀, suggesting possible weather-related influence.
- 30/12/2025, 23:59 **High PM₁₀ Concentrations Driving Poor Air Quality:** Elevated PM₁₀ concentrations significantly contribute to poor EAQI, frequently pushing air quality ratings into 'Poor' and 'Very Poor' categories.
- 30/12/2025, 23:59 **Consistent SO₂ Levels Indicate Stable Emission Sources:** Consistently low SO₂ readings over the month suggest that sulfur dioxide emissions are well-managed or not a significant issue in the monitored region.
- 30/12/2025, 23:59 **CO is a major component for the total AQI:** The CO concentration directly influence EAQI and has been on the rise. The lowest value is 345.66 ppb and the highest value is 748.31 ppb.
- 30/12/2025, 23:59 **Industrial activity strongly impacts PM₁₀ and PM_{2.5} levels:** The data suggests industrial processes are important factor. Measures during holidays report Fair air quality. Further investigation into industrial emissions required.
- 30/12/2025, 23:59 **Lower temperatures impacting pollution:** As temperatures decreases, pollution increases. The lowest temperature recorded is 0.26 °C, and the corresponding EAQI score is 189, considered a Moderate value.

- 30/12/2025, 23:59 **PM₁ closely tracks PM_{2.5}**: PM₁ level is lower than PM_{2.5}. The highest and lowest values are: 55.39 & 6.51 and 42.35 & 12.39 respectively. PM₁ values correlate to PM_{2.5}
- 30/12/2025, 23:59 **PM₁₀₀ concentration is in line with PM₁₀**: PM₁₀₀ values were significantly higher than the rest of the particulate matter (PM). It indicates that there is coarse pollution source.
- 30/12/2025, 23:59 **CO (ppb) levels are increasing the total AQI**: The CO concentration is considerably high and it impacts the air quality. Measures should be taken to find the source of the CO.

Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
01/12/2025, 23:59	318	26.68	30.65	2.51	45.82	109.11
02/12/2025, 23:59	404	26.8	27.53	2.51	63.16	191.67
03/12/2025, 23:59	212	28.76	28.36	2.49	23.12	56.07
04/12/2025, 23:59	215	30.79	29.13	2.47	18.56	57.26
05/12/2025, 23:59	212	42.16	27.66	2.46	19.69	56.06
06/12/2025, 23:59	256	33.43	27.77	2.49	25.49	78.18
07/12/2025, 23:59	258	31.97	26.66	2.52	35.44	78.93
08/12/2025, 23:59	405	34.82	26.2	2.51	63.67	202.31
09/12/2025, 23:59	449	26.59	31.04	2.52	151.62	660.18
10/12/2025, 23:59	403	37.91	24.45	2.5	53.08	181.16
11/12/2025, 23:59	406	27.79	28.18	2.52	64.34	216.48
12/12/2025, 23:59	261	29.21	28.2	2.51	33.5	80.71
13/12/2025, 23:59	271	25.11	32.09	2.51	35.52	85.7
14/12/2025, 23:59	256	24	34.52	2.48	32.72	78.24
15/12/2025, 23:59	277	29.71	32.99	2.49	25.84	88.34
16/12/2025, 23:59	333	30.81	26.19	2.46	36.16	116.43
17/12/2025, 23:59	334	36.41	25.08	2.5	38.64	117.21
18/12/2025, 23:59	391	41.8	22.83	2.53	55.74	145.54
19/12/2025, 23:59	294	34.96	28.12	2.5	34.65	96.77
20/12/2025, 23:59	330	31.15	26.8	2.51	46.25	115.12
21/12/2025, 23:59	345	19.09	35.59	2.55	49.71	122.26
22/12/2025, 23:59	251	21.06	35.35	2.49	31.12	75.54
23/12/2025, 23:59	272	21.86	33.17	2.49	34.25	86.19
24/12/2025, 23:59	162	22.41	33.34	2.51	20.49	46.18
25/12/2025, 23:59	58	20.62	36.35	2.49	7.5	23.3
26/12/2025, 23:59	190	20.68	36.73	2.52	18.47	48.97
27/12/2025, 23:59	257	19.32	35.75	2.49	30.3	78.53
28/12/2025, 23:59	171	19.71	38.28	2.49	17.21	47.12
29/12/2025, 23:59	216	27.35	35.18	2.49	16.5	58.21
30/12/2025, 23:59	189	25.19	37.83	2.48	14.29	48.89

Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.67	167.28	100	463.58	85.19	41.62	156.72	1010.05	5.98
02/12/2025, 23:59	2	109.27	100	476.68	84.27	42.35	371.32	1011.15	6.05
03/12/2025, 23:59	2.7	114.87	100	431.83	83.52	21.12	89.5	1008.26	7.33
04/12/2025, 23:59	2.74	104.64	100	407.86	74.51	16.63	100.4	1003.89	10.37
05/12/2025, 23:59	2.37	83.14	100	439.91	74.6	17.75	94.82	999.87	12
06/12/2025, 23:59	2.26	4.07	100	494.48	76.29	23.18	126.68	1004.59	9.53
07/12/2025, 23:59	1.24	357.74	100	422.89	83.96	32.91	106.82	1006.81	9.38
08/12/2025, 23:59	1.36	330.82	100	594.89	84.94	44.68	379.38	1012.41	8.61
09/12/2025, 23:59	2.58	157.74	100	448.89	91.77	55.39	1531.11	1014.77	4.79
10/12/2025, 23:59	1.71	167.16	100	725.15	81.01	39.96	361.01	1011.97	8.02
11/12/2025, 23:59	0.96	294.73	100	453.35	87.7	39.11	438.21	1014.18	6.09
12/12/2025, 23:59	0.13	218.55	100	428.55	85.62	30.12	118.46	1015.93	5.84
13/12/2025, 23:59	0.7	181.45	100	393.14	84.31	31.97	125.17	1019.51	4.83
14/12/2025, 23:59	0.7	221.64	100	383.78	84.18	29.15	113.3	1019.84	4.17
15/12/2025, 23:59	1.99	127.9	100	510.13	82.17	23.02	129.02	1018.7	3.76
16/12/2025, 23:59	2.29	82.37	100	620.12	78.94	33.36	183.21	1015.3	3.24
17/12/2025, 23:59	2.53	146.57	100	685.61	75.22	35.98	178.74	1014.81	4.83
18/12/2025, 23:59	2.01	175.14	100	748.31	70.49	51.07	196.48	1018.57	9.15
19/12/2025, 23:59	2.1	128.5	100	511.56	73.3	32.07	149.33	1016.51	9.88
20/12/2025, 23:59	1	67.82	100	502.79	73.97	43.06	166.77	1010.97	10.22
21/12/2025, 23:59	1.76	51.87	100	381.82	85.01	41.37	171.61	1010.05	6.91
22/12/2025, 23:59	1.83	96.34	100	397.47	85.95	27.73	109.92	1010.47	5.17
23/12/2025, 23:59	2.18	86.46	100	424.34	78.78	29.7	131.99	1008.25	5.35
24/12/2025, 23:59	2.67	56.98	100	392.5	79.54	18.58	70.48	1008.66	5.05
25/12/2025, 23:59	2.33	49.36	100	345.66	73.52	6.51	48.03	1017.95	6.78
26/12/2025, 23:59	2.66	301.24	100	354.12	79.27	16.73	84.56	1019.24	3.75
27/12/2025, 23:59	1.7	264.44	100	390.29	77.83	27.72	119.6	1015.97	3.5
28/12/2025, 23:59	4.07	301.88	100	351.06	71.65	15.31	81.49	1008.75	3.75
29/12/2025, 23:59	3.48	238.96	100	392.58	70.59	14.51	108.51	1007.54	2.56
30/12/2025, 23:59	4.21	299.6	100	362.83	74	12.39	93.48	1003.83	0.26

Oizom will not be responsible for Environmental Data accuracy once Validated